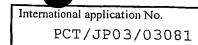
Internation application No.
PCT/JP03/03081

A. CLASS	IFICATION OF SUBJECT MATTER C1 <sup>7</sup> B28B11/02, B01D39/20, B01D	39/14			
According to International Patent Classification (IPC) or to both national classification and IPC					
B. FIELDS	SEARCHED				
Int.	ocumentation searched (classification system followed b Cl <sup>7</sup> B28B1/00-23/22, B01D39/00-	41/04, FUINS/20, BUID55			
Jitsu Kokai	ion searched other than minimum documentation to the ayo Shinan Koho 1926–1996 Jitsuyo Shinan Koho 1971–2003	Jitsuyo Shinan Toroku Koho	1996-2003		
Electronic de WPI	ata base consulted during the international search (name	e of data base and, where practicable, sear	cn terms used)		
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.		
A	_	tors, Ltd.),	1-7		
A	US 2002/20944 Al (Satoru YAM 21 February, 2002 (21.02.02), Claims & JP 2002-37672 A Claims & JP 2002-28915 A Claims & DE 10122939 Al	AGUCHI),	1-7		
		See patent family annex.	L		
A Turtue decarrence of the details			emotional filing date or		
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed		"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family			
Date of the actual completion of the international search 09 June, 2003 (09.06.03)  Date of mailing of the international search 24 June, 2003 (24.06.03)					
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
Facsimile No.		Telephone No.			





C (Continua	tion). DOCUMENTS CONSIDERED TO BE RELEVANT	
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4559193 A (NGK Insulators, Ltd.), 17 December, 1985 (17.12.85), Claims & JP 59-54683 A (NGK Insulators, Ltd.), Claims	
A	JP 1-259905 A (Ibiden Co., Ltd.), 17 October, 1989 (17.10.89), Claims (Family: none)	1-7
A	JP 1-192504 A (Ibiden Co., Ltd.), 02 August, 1989 (02.08.89), Claims (Family: none)	1-7
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